

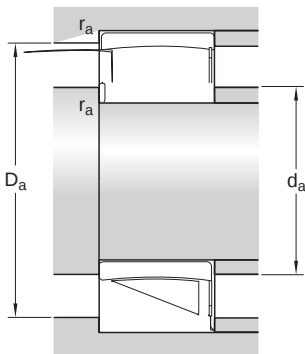
C 4124 V/C3



CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This full complement bearing, which has a lower speed rating, uses as many rollers as possible, giving it the highest possible load rating.

- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type	Cylindrical		
	Dimensions		
	d	120 mm	Bore diameter
	D	200 mm	Outside diameter
	B	80 mm	Width
	d ₂	≈ 140 mm	Shoulder diameter of inner ring
	D ₁	≈ 176 mm	Shoulder or recess diameter of outer ring
	s ₁	max. 18 mm	Permissible axial displacement
	s ₂	max. 11.2 mm	Permissible axial displacement
	r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 131 mm	Diameter of shaft abutment
d _a	max. 160 mm	Diameter of shaft abutment
D _a	min. 143 mm	Diameter of housing abutment
D _a	max. 189 mm	Abutment diameter housing

r_a	max. 2 mm	Radius of fillet
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Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	780 kN
Basic static load rating	C ₀	1 120 kN
Fatigue load limit	P _u	114 kN
Limiting speed		750 r/min
Misalignment factor	k ₁	0.104
Internal clearance factor	k ₂	0.103

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit